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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/887,997	06/22/2001	Stephen R. Quake	020174-004900US	9055
20350	7590	01/10/2005	EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834				KUNEMUND, ROBERT M
ART UNIT		PAPER NUMBER		
		1765		

DATE MAILED: 01/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

ID

Office Action Summary	Application No.	Applicant(s)
	09/887,997	QUAKE ET AL.
	Examiner	Art Unit
	Robert M Kunemund	1765

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
 THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 October 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 19, 21, 23, 24 and 33-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 33-38 is/are allowed.
- 6) Claim(s) 19, 21, 23, and 24 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19, and 25 to 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenyon et al (EP 553,539) in view of Jager et al., (Science vol 290).

The Kenyon et al reference teaches a method of crystallizing protein solutions. The proteins that are to be crystallized are placed in a solution and separated. The solution is then forced from one chamber to another chamber to start the crystallization of the protein. There can be a material added to promote the crystallization, note examples. The sole difference between the instant claims and the prior art is the elastomeric block. However, the Jager et al reference teaches an elastomeric block which has a membrane which is flexible. The membrane is used to change the volume

of materials and to force materials to different areas, note page 114. It would have been obvious to one of ordinary skill in the art to modify the Kenyon et al reference by the teachings of the Jager et al reference to use an elastomeric block in order to increase the control over the movement of the solutions as is taught by the Jager et al reference.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kenyon et al (EP 553,539) in view of Jager et al., (Science vol 290).

The Kenyon et al reference teaches a method of crystallizing protein solutions. The proteins that are to be crystallized are placed in a solution and separated. The

solution is then forced from one chamber to another chamber to start the crystallization of the protein. There can be a material added to promote the crystallization, note examples. The sole difference between the instant claims and the prior art is the elastomeric block. However, the Jager et al reference teaches an elastomeric block which has a membrane which is flexible. The membrane is used to change the volume of materials and to force materials to different areas, note page 114. It would have been obvious to one of ordinary skill in the art to modify the Kenyon et al reference by the teachings of the Jager et al reference to use an elastomeric block in order to increase the control over the movement of the solutions as is taught by the Jager et al reference.

Claims 21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenyon et al (EP 553,539) in view of Jager et al., (Science vol 290).

The Kenyon et al and Jager et al references are relied on for the same reason as stated, supra, and differ from the instant claims in the overlying membrane. However, in the absence of unobvious results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentations the optimum, operable means to move the solutions in the Kenyon et al reference in order to meter out the precise amount of materials increasing the crystallization.

Response of Applicants' Arguments

Applicant's arguments filed October 20, 2004 have been fully considered but they are not persuasive.

Applicants' argument concerning the Kenyon reference has been considered and not deemed persuasive. The rejection over the claims is a combination rejection. The examiner has admitted in the rejection that the Kenyon reference does not teach the elastomeric block. However, the Jager et al reference does teach this limitation and has been applied against the claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

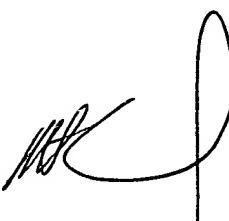
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMK

A handwritten signature in black ink, appearing to read "RK".

ROBERT KUNEMUND
PRIMARY EXAMINER